

Claims

1.-24. (Cancelled)

25. (Currently Amended) A highly corrosion resistant high strength stainless seamless steel pipe for linepipe having a composition comprising: 0.001 to 0.015% C, 0.01 to 0.5% Si, 0.1 to 1.8% Mn, 0.03% or less P, 0.005% or less S, 15 to 18% Cr, 0.5% or more and less than 5.5% Ni, 0.5 to 3.5% Mo, 0.02 to 0.2% V, 0.001 to 0.015% N, and 0.006% or less O, by mass, to satisfy the formulae (1), (2), and (3), and optionally further comprising by mass:

0.002 to 0.05% Al,

3.5% or less Cu,

at least one element selected from the group consisting of 0.2% or less Nb, 0.3% or less Ti, 0.2% or less Zr, 0.01% or less B, and 3.0% or less W; and/or 0.01% or less Ca;

and balance of Fe and impurities:

$$\text{Cr} + 0.65\text{Ni} + 0.6\text{Mo} + 0.55\text{Cu} - 20\text{C} \geq 18.5 \quad (1)$$

$$\text{Cr} + \text{Mo} + 0.3\text{Si} - 43.5\text{C} - 0.4\text{Mn} - \text{Ni} - 0.3\text{Cu} - 9\text{N} \geq 11.5 \quad (2)$$

$$\text{C} + \text{N} \leq 0.025 \quad (3)$$

where C, Ni, Mo, Cr, Si, Mn, Cu, and N signify the content of the respective elements, and a microstructure comprising a residual austenite phase that is present, but in an amount that is about 40% or less, and about 10 to about 60% ferrite ~~phase~~, and about 25% or more martensite ~~phase~~, by volume, ~~with the~~ in a ferrite and martensite dual-phase as a base phase.

26. (Cancelled)

27. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the content of Ni is about 1.5 to about 5.0% by mass.
28. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the content of Mo is about 1.0 to about 3.5% by mass.
29. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the content of Mo is more than about 2% and not more than about 3.5% by mass.
30. (Cancelled)
31. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the content of Cu is about 0.5 to about 1.14% by mass.
- 32.-34. (Cancelled)
35. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the ferrite phase is about 15 to about 50% by volume.
36. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the residual austenite phase is about 30% or less by volume.
- 37.-47. (Cancelled)
48. (Previously Presented) A welded structure fabricated by welding to join together the high strength stainless seamless steel pipes according to claim 25.
49. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the austenite phase is present in amount of 4.1% to about 40%.
50. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, having a yield strength of 413 to 579 MPa.